

WETLAND DETERMINATION DATA FORM
Great Plains Region

Project/Site:	L3R	Subregion (MLRA or LRR):	MLRA 56	Date:	08/04/14
Applicant:	Enbridge	County:	Marshall	State:	MN
Investigators:	KRG/NTT/BCS	NWI Classification:		Sample Point:	u-155n45w18-b1
Soil Unit:	I65A	Local Relief:	VL	Section:	
Landform:	Talf	Latitude:	48.244723	Longitude:	-96.486213
Slope (%):	0 - 2%	Datum:		Township:	
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are Vegetation <input type="checkbox"/> Soil <input type="checkbox"/> or Hydrology <input type="checkbox"/> significantly disturbed?			Are normal circumstances present?		
Are Vegetation <input type="checkbox"/> Soil <input type="checkbox"/> or Hydrology <input type="checkbox"/> naturally problematic?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Range:				Dir:	

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	No	Hydric Soils Present?	No
Wetland Hydrology Present?	No	Is This Sampling Point Within A Wetland?	No

Remarks: The upland point is located in an agricultural field planted in wheat.

HYDROLOGY

Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):

Primary:

- A1 - Surface Water
- A2 - High Water Table
- A3 - Saturation
- B1 - Water Marks
- B2 - Sediment Deposits
- B3 - Drift Deposits
- B4 - Algal Mat or Crust
- B5 - Iron Deposits
- B7 - Inundation Visible on Aerial Imagery
- B9 - Water-Stained Leaves

- B11 - Salt Crust
- B13 - Aquatic Fauna
- C1 - Hydrogen Sulfide Odor
- C2 - Dry Season Water Table
- C3 - Oxidized Rhizospheres on Living Roots (not till)
- C4 - Presence of Reduced Iron
- C7 - Thin Muck Surface
- Other (Explain)

Secondary:

- B6 - Surface Soil Cracks
- B8 - Sparsely Vegetated Concave Surface
- B10 - Drainage Patterns
- C3 - Oxidized Rhizospheres on Living Roots (tilled)
- C8 - Crayfish Burrows
- C9 - Saturation Visible on Aerial Imagery
- D2 - Geomorphic Position
- D5 - FAC-Neutral Test
- D7 - Frost-Heaved Hummocks (LRR F)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	Depth:	(in.)
Water Table Present?	Yes <input type="checkbox"/>	Depth:	(in.)
Saturation Present?	Yes <input type="checkbox"/>	Depth:	(in.)

Wetland Hydrology Present? N

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No indicators of wetland hydrology were observed.

SOILS

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

(Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)

Depth (In.)	Matrix			Mottles			Texture	Remarks
	Color (Moist)	%		Color (Moist)	%	Type		
0-3	Hue_10YR	2/1	100					SCL
3-18	Hue_2.5Y	5/3	100					LS

NRCS Hydric Soil Field Indicators (check here if indicators are not present):

- A1 - Histosol
- A2 - Histic Epipedon
- A3 - Black Histic
- A4 - Hydrogen Sulfide
- A5 - Stratified Layers (LRR F)
- A9 - 1 cm Muck (LRR FGH)
- A11 - Depleted Below Dark Surface
- A12 - Thick Dark Surface
- S1 - Sandy Mucky Mineral
- S2 - 2.5 cm Mucky Peat or Peat (LRR G, H)
- S3 - 5 cm Mucky Peat or Peat (LRR F)
- S4 - Sandy Gleyed Matrix

- S5 - Sandy Redox
- S6 - Stripped Matrix
- F1 - Loamy Mucky Mineral
- F2 - Loamy Gleyed Matrix
- F3 - Depleted Matrix
- F6 - Redox Dark Surface
- F7 - Depleted Dark Surface
- F8 - Redox Depressions
- F16 - High Plains Depressions (MLRA 72, 73 of LRR H)

Indicators for Problematic Soils¹

- A9 - 1 cm Muck (LRR I, J)
- A16 - Coast Prairie Redox (LRR F, G, H)
- S7 - Dark Surface (LRR G)
- F16 - High Plains Depressions (LRR H, outside MLRA 72, 73)
- F18 - Reduced Vertic
- TF2 - Red Parent Material
- TF12 - Very Shallow Dark Surface
- Other (Explain in Remarks)

¹Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer	Type: _____	Depth: _____
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Hydric Soil Present? N

Remarks: The soil is a dark sandy clay loam over loamy sand. No hydric soil indicators were observed.

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Project/Site: **L3R** Sample Point: **u-155n45w18-b1**

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 30 ft. radius)

	Species Name	% Cover	Dominant	Ind. Status
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
		Total Cover =	0	

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: **0** (A)
 Total Number of Dominant Species Across All Strata: **1** (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: **0.0%** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	0	x 3 =	0
FACU spp.	0	x 4 =	0
UPL spp.	90	x 5 =	450
Total		90 (A)	450 (B)
		Prevalence Index = B/A = 5.000	

Sapling/Shrub Stratum (Plot size: 15 ft. radius)

1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
		Total Cover =	0	

Hydrophytic Vegetation Indicators:

- Rapid Test for Hydrophytic Vegetation
- Dominance Test is > 50%
- Prevalence Index is ≤ 3.0 *
- Morphological Adaptations (Explain) *
- Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Herb Stratum (Plot size: 5 ft. radius)

1.	<i>Triticum aestivum</i>	90	Y	NI
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
		Total Cover =	90	

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.

Herb - All herbaceous (non-woody) plants, regardless of size.

Woody Vines - All woody vines, regardless of height.

Woody Vine Stratum (Plot size: 30 ft. radius)

1.				
2.				
3.				
5.				
4.				
		Total Cover =	0	

Hydrophytic Vegetation Present? **N**

Remarks: **The upland vegetation is dominated by wheat; the sample location is within a cultivated field. Bare soil is present between the crop rows.**

Additional Remarks: